

**This listing of claims will replace all prior versions, and listings, of claims in the application.**

**Listing of Claims:**

1-39. (Canceled)

40. (Currently amended) A purified recombinant polypeptide comprising at least ten contiguous amino acids from the amino acid sequence of SEQ ID NO:3, which polypeptide:

(i) is immunologically identifiable by antibodies that react specifically with the polypeptide having the amino acid sequence of SEQ ID NO:3 and

(ii) exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

41-53. (Canceled)

54. (Currently amended) The purified recombinant polypeptide of claim 40, wherein said polypeptide comprises at least fifteen contiguous amino acids from the amino acid sequence of SEQ ID NO:3.

55-60. (Canceled)

61. (Currently amended) The purified recombinant polypeptide of claim 40 or 54, said polypeptide having a molecular weight of at least 87 kDa to about 140 kDa wherein said polypeptide comprises amino acid substitutions to form an altered polypeptide wherein said altered polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

62. (Currently amended) The purified recombinant polypeptide of claim 40 or 54, said polypeptide having a molecular weight of at least 100 kDa to about 140 kDa wherein said polypeptide comprises amino acid substitutions to form an altered polypeptide wherein said

altered polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

63. (Currently amended) A purified recombinant polypeptide expressed from at least 15 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:2, wherein said polypeptide:

(i) is immunologically identifiable by antibodies that react specifically with the polypeptide having the amino acid sequence of SEQ ID NO:3 and

(ii) exhibits no cytotoxic activity or reduced cytotoxic activity compared with a native *Helicobacter pylori* cytotoxin.

64. (Currently amended) The purified recombinant polypeptide of claim 63, said polypeptide expressed from at least 30 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:2.

65. (Currently amended) The purified recombinant polypeptide of claim 63, said polypeptide expressed from at least 45 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:2.

66-71. (Canceled)

72. (Currently amended) The purified recombinant polypeptide of claim 63, 64, or 65, said polypeptide having a molecular weight of at least 87 kDa to about 140 kDa wherein said polypeptide comprises amino acid substitutions to form an altered polypeptide wherein said altered polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

73. (Currently amended) The purified recombinant polypeptide of claim 63, 64, or 65, said polypeptide having a molecular weight of at least 100 kDa to about 140 kDa wherein said polypeptide comprises amino acid substitutions to form an altered polypeptide wherein said

altered polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

74. (Currently amended) An immunogenic, purified, recombinant polypeptide comprising at least 10 contiguous amino acids of the amino acid sequence of SEQ ID NO:3, wherein said polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity, and wherein said polypeptide is immunologically identifiable by antibodies that react specifically with the polypeptide having the amino acid sequence of SEQ ID NO:3.

75. (Currently amended) The immunogenic, purified, recombinant polypeptide of claim 74, said polypeptide comprising at least 15 contiguous amino acids of the amino acid sequence of SEQ ID NO:3.

76-81. (Canceled)

82. (Currently amended) The immunogenic, purified, recombinant polypeptide of claim 74 or 75, said polypeptide having a molecular weight of at least 87 kDa to about 140 kDa wherein said polypeptide comprises amino acid substitutions to form an altered polypeptide wherein said altered polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

83. (Currently amended) The immunogenic, purified, recombinant polypeptide of claim 74 or 75, said polypeptide having a molecular weight of at least 100 kDa to about 140 kDa wherein said polypeptide comprises amino acid substitutions to form an altered polypeptide wherein said altered polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

84. (Currently amended) An immunogenic, purified recombinant polypeptide comprising at least 5 contiguous amino acids expressed from at least 15 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:2, wherein said polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity and wherein said polypeptide is immunologically identifiable by

antibodies that react specifically with the polypeptide expressed by the nucleotide sequence of SEQ ID NO:2.

85. (Currently amended) The immunogenic, purified recombinant polypeptide of claim 84, said polypeptide expressed from at least 30 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:2.

86. (Currently amended) The immunogenic, purified, recombinant polypeptide of claim 84, said polypeptide expressed from at least 45 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:2.

87-92. (Canceled)

93. (Currently amended) The immunogenic, purified, recombinant polypeptide of claim 84, 85, or 86, said polypeptide having a molecular weight of at least 87 kDa to about 140 kDa wherein said polypeptide comprises amino acid substitutions to form an altered polypeptide wherein said altered polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

94. (Currently amended) The immunogenic, purified, recombinant polypeptide of claim 84, 85, or 86, said polypeptide having a molecular weight of at least 100 kDa to about 140 kDa wherein said polypeptide comprises amino acid substitutions to form an altered polypeptide wherein said altered polypeptide exhibits no cytotoxic activity or reduced cytotoxic activity compared with *Helicobacter pylori* cytotoxin purified from cell cultures.

95-101. (Canceled)